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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/732,999	12/10/2003	Yun-Sik Han	155634-0156	8287
1622	7590 03/30/2005		EXAMINER	
IRELL & MANELLA LLP			SLAVITT, MITCHELL R	
840 NEWPORT CENTER DRIVE SUITE 400		ART UNIT	PAPER NUMBER	
NEWPORT BEACH, CA 92660			2651	
			DATE MAILED: 03/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		Application No.				
		10/732,999	HAN ET AL.			
		Examiner	Art Unit			
		Mitchell R Slavitt	2651			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE MAILING DATE C - Extensions of time may be availer SIX (6) MONTHS from the lift the period for reply specified. If NO period for reply is specified. Failure to reply within the set of the set	OF THIS COMMUNICATION. ailable under the provisions of 37 CFR 1.1 the mailing date of this communication. I above is less than thirty (30) days, a repliced above, the maximum statutory period to extended period for reply will, by statute the later than three months after the mailing	Y IS SET TO EXPIRE 3 MONTH(36(a). In no event, however, may a reply be time, within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE of date of this communication, even if timely filed	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status	•					
1) Responsive to co	ommunication(s) filed on <u>11 D</u>	ecember 2003.				
2a) ☐ This action is FIN	<u> </u>					
<i>'</i> —						
/	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/s	☑ Claim(s) <u>1-16</u> is/are pending in the application.					
4a) Of the above	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is	☐ Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,3-6 ar</u>	• • • • • • • • • • • • • • • • • • • •					
	Claim(s) <u>2 and 7</u> is/are objected to.					
* ' '	re subject to restriction and/o	r election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>11 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
• • • • • • • • • • • • • • • • • • • •	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
<i>,</i> — <i>,</i> —	a) ☐ All b) ☐ Some " c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.					
<u> </u>	•		on No			
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of the certified copies not received.						
Attachment/s)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 3-6, and 8-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Fiorvanti et al. (Fiorvanti).

Regarding claims 1 and 6, a servo writer for writing servo information onto a disk of a hard disk drive comprising an enclosed interior environment to hold a low-density gas is taught at col 3, lines 13-19. Fig 3 describes the housing where an inner chamber can receive the disk of the hard disk drive. Also see col 7, lines 4-22. Fig 3 also describes an inflow port (320) and an outflow port (322) for helium. A medium control system that is coupled to the inner chamber to create a fluid medium density is taught at col 8, lines 48-62. At col 7, lines 28-30 it is stated that in a preferred embodiment, the gas will have a density that is approximately 20 percent that of air.

Regarding claims 3, 8, and 13, helium is used to fill the inner chamber. See col. 7, lines 23-28.

Regarding claims 4, 9, and 14, the servo writer has a spindle located within the inner chamber as taught in Fig 3 and at col 6, lines 1-15.

Regarding claims 5, 10, and 15, the housing is located in a clean room as taught at col 8, lines 6-12.

Regarding claim 11, it is drawn to the method of using the corresponding apparatus in claims 1 and 6. Therefore method claim 11 corresponds to apparatus claims 1 and 6 and is rejected for the same reasons of anticipation as indicated above.

Regarding claim 12, a condition is created by creating a vacuum within the inner chamber is taught at col 8, lines 63-66.

Regarding claim 16, the hard disk drive that contains the disk and placed into the inner chamber is taught at col 6, lines 1-15.

Allowable Subject Matter

3. Claims 2 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 2 and 7, dependent on claims 1 and 6 teach a servo writer. The distinguishing element of the claims is a pump to maintain a pressure of the inner chamber below one atmosphere.

Prior Art of Record

4. The following prior art of record is not relied upon but is provided since it is considered relevant to the applicant's invention. Cruz et al. indicates a multiple disc writer station can also write the servo data in a gaseous environment having a lower density than ambient air (such as helium) in order to achieve higher yields and /or faster throughput.

Art Unit: 2651

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mitchell R Slavitt whose telephone number is (571) 272-7562: The examiner can normally be reached on M-F (6:30-4:00), 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MS M9 3/25/05 DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600